

SEQUENCE LISTING

(1) GENERAL INFORMATION:

5 (2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH:

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

10 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (oligonucleotide)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

15 FR-patched RFB4

VH:

Full length cDNA sequence (SEQ ID no. 1):

20 GAAGTGCAGCTGCTGGAGTCTGGGGGAGGCTTAGTGCAGCCTGGA  
GGGTCCCTGAGGCTCTCCTGTGCAGCCTCTGGATTCTCCTTCAGTAT  
CTATGACATGTCTTGGGTTCGCCAGGCACCGGGAAAGGGGCTGGA  
GTGGGTCGCATACATTAGTAGTGGTGGTGGTACCACCTACTATCCA  
GACACTGTGAAGGGCCGATTACCATCTCCAGAGACAATGCCAAG  
25 AACTCCCTGTACCTGCAAATGAACAGTCTGAGGGTGGAGGACACA  
GCCTTATATTACTGTGCAAGACATAGTGGCTACGGTAGTAGCTACG  
GGGTTTGTGTTGCTTACTGGGGCCAAGGGACTCTGGTCACTGTCTCT  
TCA

Full length amino acid sequence (SEQ ID no. 2):

30 EVQLLES GGGLVQPGGSLRLS CAASGFSFSIYDMSWVRQAPGKGLEW  
VAYISSGGGTYYPD TVKGRFTISRDN AKNSLYLQMNSLRVEDTALYY  
CARHSGYGSSYGVLFA YWGQGT LTVSS

N-terminal sense strand template DNA sequence (SEQ ID no. 3):

35 CCTGGAGGGTCCCTGAGGCTCTCCTGTGCAGCCTCTGGATTCTCCTT  
CAGTATCTATGACATGTCTTGGGTTCGCCAGGCACCGGGAAAGGGG  
CTGGAGTGGGTCGCATAC

5' Primer for N-template (SEQ ID no. 4)

40 GAAGTGCAGCTGCTGGAGTCTGGGGGAGGCTTAGTGCAGCCTGGA  
GGGTCCCTGAGG

3' Primer for N-template (SEQ ID no. 5)

45 GTAGGTGGTACCACCACCACTACTAATGTATGCGACCCACTCCAGC  
CC

C-terminal sense strand template DNA sequence (SEQ ID no. 6):

TTCACCATCTCCAGAGACAATGCCAAGAACTCCCTGTACCTGCAAA  
TGAACAGTCTGAGGGTGGAGGACACAGCCTTATATTACTGTGCAAG  
ACATAGTGGCTACGGTAGTAGCTACGGGGTTTTGTTTGCT

5 5' Primer for C-template (SEQ ID no. 7)  
GGTGGTACCACCTACTATCCAGACACTGTGAAGGGCCGATTCACCA  
TCTCCAGAGACAAT

10 3' Primer for C-template (SEQ ID no. 8)  
TGAAGAGACAGTGACCAGAGTCCCTTGGCCCCAGTAAGCAAACAA  
AACCCCGTAGCT

Joining site: KpnI

15 VK:

Full length cDNA sequence (SEQ ID no. 9)  
GATATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCCTCTGTGGG  
AGACAGAGTCACCATTAGTTGCAGGGCAAGTCAGGACATTAGCAA  
20 TTATTTAAACTGGTATCAGCAGAAACCAGGTAAGGCTCCGAAACTC  
CTGATCTACTACACTAGTATATTACACTCAGGAGTCCCATCAAGGT  
TCAGTGGCAGTGGGTCTGGAACAGAATTTACTCTCACCATTAGCTC  
CCTGCAGCCAGAAGATTTTGCCACTTACTTTTGCCAACAGGGTAAT  
ACGCTTCCGTGGACGTTCCGTGGAGGCACCAAGGTGGAAATCAAA

25 Full length amino acid sequence (SEQ ID no. 10)  
DIQMTQSPSSLSASVGDRTVISCRAQDISNYLNWYQQKPGKAPKLLIY  
YTSILHSGVPSRFSGSGSGTEFTLTISSLQPEDFATYFCQQGNTLPWTFG  
GGTKVEIK

30 N-terminal sense strand template DNA sequence (SEQ ID no. 11)  
CTGTCTGCCTCTGTGGGAGACAGAGTCACCATTAGTTGCAGGGCAA  
GTCAGGACATTAGCAATTATTTAAACTGGTATCAGCAGAAACCAGG  
TAAGGCTCCGAAACTC

35 5' Primer for N template (SEQ ID no. 12)  
GATATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCCTCTGTGGG  
AGAC

40 3' Primer for N-template (SEQ ID no. 13)  
ATATACTAGTGTAGTAGATCAGGAGTTTCGGAGCCTTACC

C-terminal sense strand template DNA sequence (SEQ ID no. 14)  
CCATCAAGGTTTCAGTGGCAGTGGGTCTGGAACAGAATTTACTCTCA  
45 CCATTAGCTCCCTGCAGCCAGAAGATTTTGCCACTTACTTTTGCCAA  
CAGGGTAATACGCTTCCGTGGACGTTT

5' Primer for C-template (SEQ ID no. 15)  
CTACACTAGTATATTACACTCAGGAGTCCCATCAAGGTTTCAGTGGC  
50 AGT

3' Primer for C-template (SEQ ID no. 16)

TTTGATTTCACCTTGGTGCCTCCACCGAACGTCCACGGAAGCGTA  
TT

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Joining site: SpeI A<sup>V</sup>CTAG<sub>Δ</sub>T

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FR-Patched chimeric 1F5

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VH:

Full length cDNA sequence (SEQ ID no. 17):

15 CAGGTGCAACTGGTGGCTTCCGGGGCTGAGGTAAATAAGCCTGGG  
GCCTCAGTGAAGGTCTCCTGCAAGGCTTCTGGCTACACATTTACCA  
GTTACAATATGCACTGGGTACGGCAGCCTCCTGGAAGGGGCCTGGA  
ATGGATTGGAGCTATTTATCCAGGAAATGGTGATACTAGTTACAAT  
CAGAAATTCAAGGGCAAGGCCACATTGACTGCAGACAAATCCTCC  
AGCACAGCCTACATGCAGCTCAGCAGTCTGACATCTGAGGACTCTG  
20 CGGTCTATTACTGTGCAAGATCGCACTACGGTAGTAACCTACGTAGA  
CTACTTTGACTACTGGGGCCAAGGCACCACTGTTACAGTCTCCTCT  
GATCA

Full-length amino acid sequence (SEQ ID no. 18):

25 QVQLVASGAEVNKPASVKVSKASGYTFTSYNMHWVRQPPGRGLE  
WIGAIYPNGDTSYNQKFKGKATLTADKSSSTAYMQLSSLTSEDSAVY  
YCARSHYGSNYVDYFDYWGQGTITVTVSSD

N-terminal sense strand template DNA sequence (SEQ ID no. 19):

30 AATAAGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCTGGCT  
ACACATTTACCAGTTACAATATGCACTGGGTACGGCAGCCTCCTGG  
AAGGGGCCTGGAATGGATTGGA

5' Primer for N-template (SEQ ID no. 20)

35 CAGGTGCAACTGGTGGCTTCCGGGGCTGAGGTAAATAAGCCTGGG  
GCCTCAGTGAAG

3' Primer for N-template (SEQ ID no. 21)

40 TGTAACTAGTATCACCATTTCTGGATAAATAGCTCCAATCCATTCC  
AGGCCCCCT

C-terminal sense strand template DNA sequence (SEQ ID no. 22):

45 TTGACTGCAGACAAATCCTCCAGCACAGCCTACATGCAGCTCAGCA  
GTCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCAAGATCGCA  
CTACGGTAGTAACCTACGTAGACTACTTTGACTAC

5' Primer for C-template (SEQ ID no. 23)

50 TGATACTAGTTACAATCAGAAATTCAAGGGCAAGGCCACATTGACT  
GCAGACAAATCCTCC

3' Primer for C-template (SEQ ID no. 24)  
TGATCAGAGGAGACTGTAACAGTGGTGCCTTGGCCCCAGTAGTCAA  
AGTAGTCTACGTA

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Joining site: SpeI

VK:

10 Full-length cDNA sequence (SEQ ID no. 25):  
GATATTCAACTCACACAGTCTCCATCAAGTCTTTCTGCATCTGTGGG  
GGACAGAGTCACAATTACTTGCAGGGCCAGCTCAAGTTTAAGTTTC  
ATGCACTGGTACCAGCAGAAGCCAGGATCCTCCCCCAAACCCTGGA  
TTTATGCCACATCCAACCTGGCTTCCGGAGTCCCTAGTCGCTTCAGT  
15 GGCAGTGGGTCTGGGACCGAGTTCACTCTCACAATCAGCAGTTTGC  
AGCCTGAAGATTTTCGCCACTTATTTCTGCCATCAGTGGAGTAGTAA  
CCCGCTCACGTTCCGGTGCTGGGACCAAGCTGACCGTTCTACGG

20 Full-length amino acid sequence (SEQ ID no. 26):  
DIQLTQSPSSLSASVGDRVTITCRASSLSFMHWYQQKPGSSPKPWIYA  
TSNLASGVPSRFSGSGSGTEFTLTISSLQPEDFATYFCHQWSSNPLTFGA  
GTKLTVLR

25 N-terminal sense strand template DNA sequence (SEQ ID no. 27):  
TCAAGTCTTTCTGCATCTGTGGGGGACAGAGTCACAATTACTTGCA  
GGGCCAGCTCAAGTTTAAGTTTCATGCACTGGTACCAGCAGAAGCC  
AGGATCCTCCCCCAAACCCTGGATTTATGCCACATCC

30 5' Primer for N-template (SEQ ID no. 28):  
GATATTCAACTCACACAGTCTCCATCAAGTCTTTCTGCATCTGTG

3' Primer for N-template (SEQ ID no. 29):  
GGACTCCGGAAGCCAGGTTGGATGTGGCATAAATCCAGGG

35 C-terminal sense strand template DNA sequence (SEQ ID no. 30):  
TTCAGTGGCAGTGGGTCTGGGACCGAGTTCACTCTCACAATCAGCA  
GTTTGCAGCCTGAAGATTTTCGCCACTTATTTCTGCCATCAGTGGAGT  
AGTAACCCGCTCACGTTCCGGTGCTGGG

40 5' Primer for C-template (SEQ ID no. 31):  
GGCTTCCGGAGTCCCTAGTCGCTTCAGTGGCAGTGGGTCTGGG

3' Primer for C-template (SEQ ID no. 32):  
CCGTAGAACGGTCAGCTTGGTCCCAGCACCGAACGTGAGCGG

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Joining site: BspEI